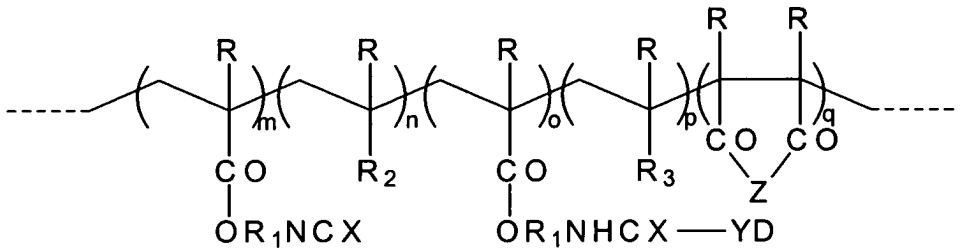
General Formula II



wherein

R is a hydrogen atom or an alkyl group; R_1 is an alkylene group, a substituted alkylene group, a cycloalkylene group, a substituted cycloalkylene group, a phenylene group or a substituted phenylene group; R_2 is a phenyl group, -COOH, a halogen atom, a cyano group, an alkoxyl group or $-COOR_6$ in which R_6 is a substituted or non-substituted, alkyl or aryl group or an ethylacetoacetate group; R_3 is -COOD; D is an organic chromophore which absorbs the exposed wavelength (100-450 nm) and represents a substituted or non-substituted, benzene ring, condensed ring or heterocyclic ring bonded directly or through alkylene group; X is O or S; Y is O or NR_4 group in which R_4 is either a hydrogen atom or a substituted or non-substituted, phenyl group or cyclic, linear or branched alkyl group; Z is O, ND group or NR_5 group in which R_5 is either a hydrogen atom or a substituted or non-substituted, phenyl group or cyclic, linear or branched alkyl group; and n, p and q are simple integers including zero and m and o are also simple integers including zero while at least one of them is greater than zero; further provided that at least one of the following conditions is met : (1) m and q are both greater than 0; (2) n and o are both greater than 0; (3) n and p are both greater than 0; (4) m and p are both greater than 0; and (5) m and o are both greater than 0; and (6) m, n, and o are all greater than 0.

19. (Once amended) A polymer according to claim 17, wherein R is a hydrogen atom or a methyl group, R_1 is an ethylene group, X is an oxygen atom, Y is $-NR_4$ group in which R_4 is either a hydrogen atom or a substituted or non-substituted, phenyl group or cyclic, linear or branched alkyl group, D is an organic chromophore which absorbs the exposed wavelength (100-450 nm) and represents a substituted or non-substituted,

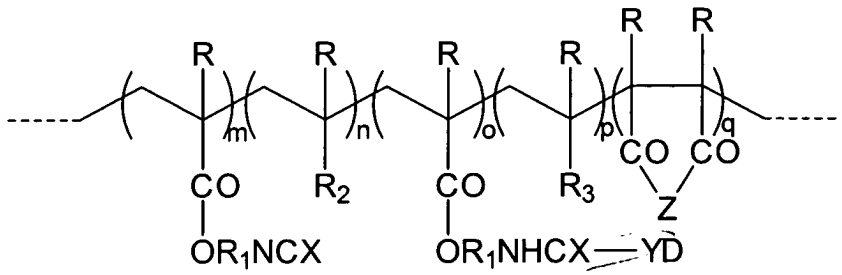
C3

benzene ring, condensed ring or heterocyclic ring bonded directly or through an alkylene group, and n, p and q are simple integers including zero and m and o are also simple integers including zero while at least one of them is greater than zero.

C4

32. (New) A composition for an anti-reflective coating or a radiation absorbing coating containing a polymer as represented by the following General Formula II and/or blocked derivatives thereof,

General Formula II:



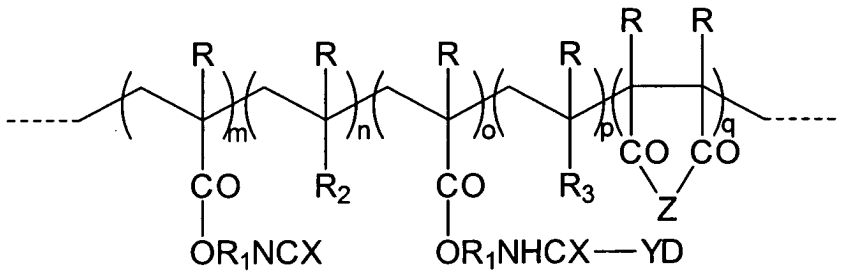
wherein

R is a hydrogen atom or an alkyl group; R_1 is an alkylene group, a substituted alkylene group, a cycloalkylene group, a substituted cycloalkylene group, a phenylene group or a substituted phenylene group; R_2 is a phenyl group, -COOH, a halogen atom, a cyano group, an alkoxyl group or $-COOR_6$ in which R_6 is a substituted or non-substituted alkyl or aryl group or an ethylacetoacetate group; R_3 is -COOD; D is an organic chromophore which absorbs the exposed wavelength (100-450 nm) and represents a substituted or non-substituted, benzene ring, condensed ring or heterocyclic ring bonded directly or through an alkylene group; X is O or S; Y is O or NR_4 group in which R_4 is either a hydrogen atom or a substituted or non-substituted phenyl group or cyclic, linear or branched alkyl group; Z is O, ND group or NR_5 group in which R_5 is either a hydrogen atom or a substituted or non-substituted, phenyl group or cyclic, linear or branched alkyl group; and n, p and q are simple integers including zero and m and o are also simple integers including zero while at least one of them is greater than zero; wherein the proportion of total molar numbers of monomer units of polymer which have isocyanate group, thioisocyanate group or blocked derivatives

thereof to total molar numbers of monomers and monomer units of polymers in the composition is 0.1 to 40 mol%.

33. (New) A composition for an anti-reflective coating or a radiation absorbing coating containing a polymer as represented by the following General Formula II.

General Formula II'



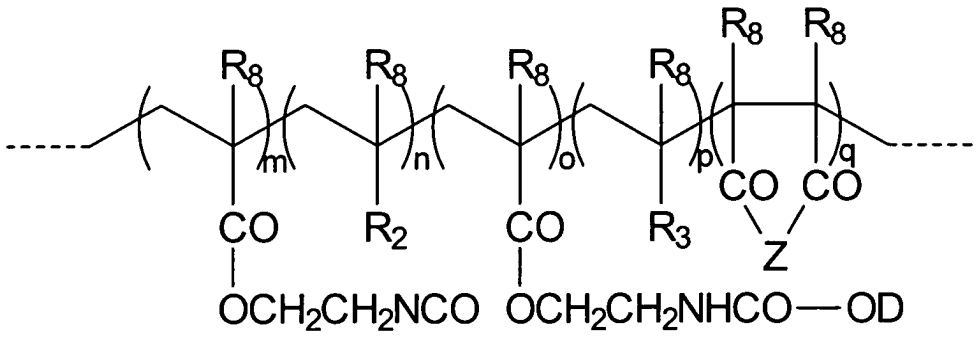
wherein

R is a hydrogen atom or an alkyl group; R_1 is an alkylene group, a substituted alkylene group, a cycloalkylene group, a substituted cycloalkylene group, a phenylene group or a substituted phenylene group; R_2 is a phenyl group, -COOH, a halogen atom, a cyano group, an alkoxyl group or $-COOR_6$ in which R_6 is a substituted or non-substituted alkyl or aryl group or an ethylacetoacetate group; R_3 is -COOD; D is an organic chromophore which absorbs the exposed wavelength (100-450 nm) and represents a substituted or non-substituted, benzene ring, condensed ring or heterocyclic ring bonded directly or through an alkylene group; X is O or S; Y is O or NR_4 group in which R_4 is either a hydrogen atom or a substituted or non-substituted phenyl group or cyclic, linear or branched alkyl group; Z is O, ND group or NR_5 group in which R_5 is either a hydrogen atom or a substituted or non-substituted, phenyl group or cyclic, linear or branched alkyl group; and n, p and q are simple integers including zero and m and o are also simple integers including zero while at least one of them is greater than zero; further provided that at least one of the following conditions is met : (1) m and q are both greater than 0; (2) n and o are both greater than 0; (3) n and p are both greater than 0; (4) m and p are both greater than 0; and (5) m and o are both greater than 0; and (6) m, n, and o are all greater than 0.

34. (New) The composition of claim 33, wherein R_1 is $-CH_2CH_2-$; R_2 is $-COOR_6$; R_4 is a hydrogen atom; and R_5 is a hydrogen atom.

35. (New) A composition for an anti-reflective coating or a radiation absorbing coating according to claim 33, wherein the polymer as represented by General Formula II is a polymer as represented by the following General Formula II'.

General Formula II'

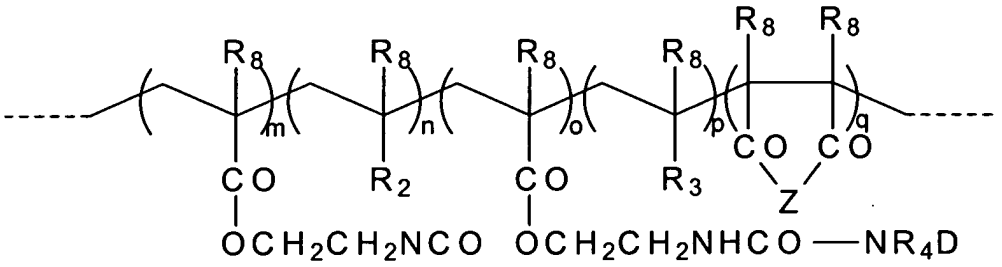


wherein

R_8 is a hydrogen atom or a methyl group; R_2 is a phenyl group, -COOH, a halogen atom, a cyano group, an alkoxyl group or $-COOR_6$ in which R_6 is a substituted or non-substituted, alkyl or aryl group or an ethylacetoacetate group; R_3 is -COOD; D is an organic chromophore which absorbs the exposed wavelength (100-450 nm) and represents a substituted or non-substituted, benzene ring, condensed ring or heterocyclic ring bonded directly or through an alkylene group; Z is O, ND group or NR_5 group in which R_5 is either a hydrogen atom or a substituted or non-substituted, phenyl group or cyclic, linear or branched alkyl group; and m, n, o, p and q are simple integers including zero while at least one of m and o is greater than zero and m, n, o, p and q together lie between 5 to 50,000; further provided that at least one of the following conditions is met : (1) m and q are both greater than 0; (2) n and o are both greater than 0; (3) n and p are both greater than 0; (4) m and p are both greater than 0; (5) m and o are both greater than 0; and (6) m, n, and o are all greater than 0.

36. (New) A composition for an anti-reflective coating or a radiation absorbing coating according to claim 33, wherein the polymer as represented by General Formula II is a polymer as represented by the following General Formula II"

General Formula II"



wherein

R_8 is a hydrogen atom or a methyl group; R_2 is a phenyl group, -COOH, a halogen atom, a cyano group, an alkoxyl group or $-COOR_6$ in which R_6 is a substituted or non-substituted, alkyl or aryl group or an ethylacetoacetate group; R_3 is -COOD; D is an organic chromophore which absorbs the exposed wavelength (100-450 nm) and represents a substituted or non-substituted, benzene ring, condensed ring or heterocyclic ring bonded directly or through an alkylene group; R_4 is either a hydrogen atom or a substituted or non-substituted, phenyl group or cyclic, linear or branched alkyl group; Z is O, ND group or NR_5 group in which R_5 is either a hydrogen atom or a substituted or non-substituted, phenyl group or cyclic, linear or branched alkyl group; and m, n, o, p and q are simple integers including zero while at least one of m and o is greater than zero and m, n, o, p and q together lie between 5 to 50; further provided that at least one of the following conditions is met : (1) m and q are both greater than 1; (2) n and o are both greater than 0; (3) n and p are both greater than 0; (4) m and p are both greater than 0; (5) m and o are both greater than 0; and (6) m, n, and o are all greater than 0.

37. (New) A composition for an anti-reflective coating or a radiation absorbing coating according to claim 35 or 36, wherein D is a group selected from phenyl, substituted phenyl, benzyl, substituted benzyl, napthalene, substituted napthalene, anthracene, substituted anthracene, anthraquinone, substituted anthraquinone, acridine,